

1 **WHAT IS CLAIMED IS:**

2 1. A method of producing transfer stickers with metal powder comprising the
3 following steps:

4 coating a substrate with a first isolating layer;
5 coating the first isolating layer with a resin layer;
6 coating the resin layer with a metal powder layer by an electroplating process;
7 printing a first protecting resin layer pattern on the metal powder layer;
8 etching the metal powder layer not covered by the first protecting resin layer
9 for shape and to cause the patterns to protrude by acid etching reagents;
10 washing away the etching reagents;
11 printing a second protecting resin layer on the first protecting resin layer to
12 protect the patterns in shape;
13 printing an adhesive layer on the second protecting resin layer; and
14 attaching a second isolating layer to the adhesive layer.

15 2. The method of producing transfer stickers with metal powder as claimed in
16 claim 1, wherein the method further comprises a neutralizing process before washing
17 away the etching reagents:

18 taking a base neutralizing reagent to counteract the acid etching reagent and
19 then washing all reagents away.

20 3. The method of producing transfer stickers with metal powder as claimed in
21 claim 1, wherein the resin layer (12) is transparent.

22 4. The method of producing transfer stickers with metal powder as claimed in
23 claim 3, wherein the resin layer (12) is transparent and colorful.

24 5. The method of producing transfer stickers with metal powder as claimed in

1 claim 1, wherein the metal powder layer (13) is pressed by molding machines to form
2 light-reflecting laser patterns on the metal powder layer (13).

3 6. The method of producing transfer stickers with metal powder as claimed in
4 claim 1, wherein the second protecting resin layer (15) is composed of multiple layers
5 and at least one layer of the second protecting resin layer (15) has a larger area than
6 one the first protecting layers (14).

7 7. The method of producing transfer stickers with metal powder as claimed in
8 claim 6, wherein the second protecting resin layer (15) is mixed with fluorescent
9 materials.

10 8. The method of producing transfer stickers with metal powder as claimed in
11 claim 6, wherein the second protecting resin layer (15) is mixed with bright colorful
12 powders.

13 9. The method of producing transfer stickers with metal powder as claimed in
14 claim 6, wherein the second protecting resin layer (15) is dyed to be colorful.

15 10. A method of producing transfer stickers with metal powder comprising
16 the following steps:

17 coating a substrate with a first isolating layer;
18 coating the first isolating layer with a resin layer;
19 coating the resin layer with a metal powder layer by an electroplating process;
20 printing a first protecting resin layer pattern on the metal powder layer;
21 etching the metal powder layer not covered by the first protecting resin layer
22 for shape and to cause the patterns to protrude by base etching reagents;
23 washing away the etching reagents;
24 printing a second protecting resin layer on the first protecting resin layer to

1 protect the patterns in shape;

2 printing an adhesive layer on the second protecting resin layer; and

3 attaching a second isolating layer to the adhesive layer.

4 11. The method of producing transfer stickers with metal powder as claimed

5 in claim 10, wherein the method further comprises a neutralizing process before

6 washing away the etch reagents:

7 taking an acid neutralizing reagent to counteract the base etching reagents and

8 then washing all reagents away.

9 12. The method of producing transfer stickers with metal powder as claimed

10 in claim 10, wherein the resin layer (12) is transparent.

11 13. The method of producing transfer stickers with metal powder as claimed

12 in claim 12, wherein the resin layer (12) is transparent and colorful.

13 14. The method of producing transfer stickers with metal powder as claimed

14 in claim 10, wherein the metal powder layer (13) is pressed by molding machines to

15 form light-reflecting laser patterns on the metal powder layer (13).

16 15. The method of producing transfer stickers with metal powder as claimed

17 in claim 10, wherein the second protecting resin layer (15) is composed of multiple

18 layers and at least one layer of the second protecting resin layer (15) has a larger area

19 than one the first protecting layer (14).

20 16. The method of producing transfer stickers with metal powder as claimed

21 in claim 15, wherein the second protecting resin layer (15) is mixed with fluorescent

22 materials.

23 17. The method of producing transfer stickers with metal powder as claimed

24 in claim 15, wherein the second protecting resin layer (15) is mixed with bright

1 colorful powders.

2 18. The method of producing transfer stickers with metal powder as claimed
3 in claim 15, wherein the second protecting resin layer (15) is dyed to be colorful.

4 19. A transfer sticker having metal powder made by electroplating processes,
5 the transfer sticker comprising:

6 a substrate;

7 a first isolating layer coated on the substrate;

8 a resin layer coated on the first isolating layer;

9 a metal powder layer formed on the resin layer by electroplating process;

10 a first protecting resin layer printed on the metal powder layer in a pattern;

11 a second protecting resin layer printed on the first protecting resin layer to

12 protect the patterns in shape;

13 an adhesive layer coated on the second protecting resin layer; and

14 a second isolating layer on the adhesive layer.

15 20. The transfer sticker as claimed in claim 19, wherein the resin layer (12) is
16 transparent and colorful.